

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

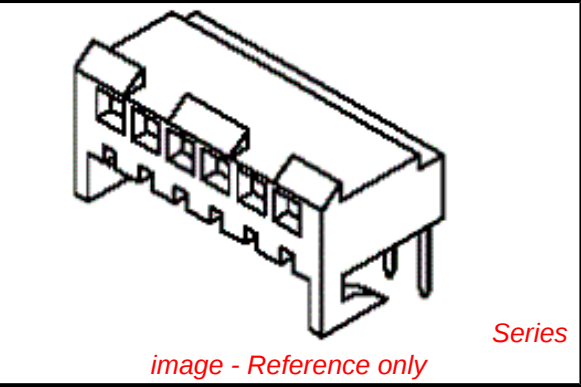
0009623121

Status:

Active

Description:

3.96mm (.156") Pitch KK® PC Board Connector, Right Angle, Nylon Connector, 0.38µm (15µ") Gold (Au) Selective, 12 Circuits



Documents:	
3D Model	Product Specification PS-08-50 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification	
UL	E29179
General	
Product Family	PCB Receptacles
Series	2145
Application	Board-to-Board
Product Name	KK®
Physical	
Circuits (Loaded)	12
Flammability	94V-2
Glow-Wire Compliant	No
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	1
Orientation	Right Angle
PC Tail Length (in)	0.145 In
PC Tail Length (mm)	3.68 mm
PCB Locator	No
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Bag, Tray
Pitch - Mating Interface (in)	0.156 In
Pitch - Mating Interface (mm)	3.96 mm
Plating min: Mating (µin)	15
Plating min: Mating (µm)	0.375
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Polarized to PCB	Yes
Temperature Range - Operating	0°C to +75°C
Termination Interface: Style	Through Hole
Electrical	
Current - Maximum per Contact	5A
Voltage - Maximum	250V
Solder Process Data	
Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	235
Material Info	
Old Part Number	A-2145-AA12A-208

EU RoHS

ELV and RoHS Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

2145Series

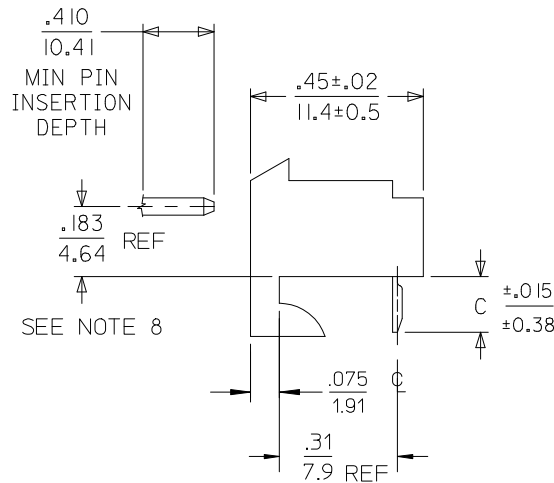
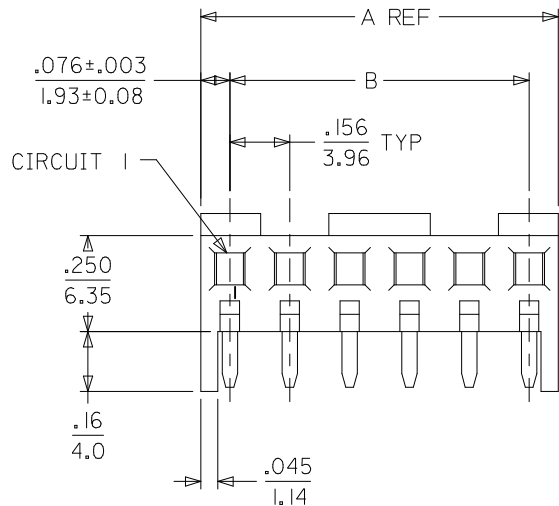
Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-08-50
SDA-2145-001, SDA-2145-004

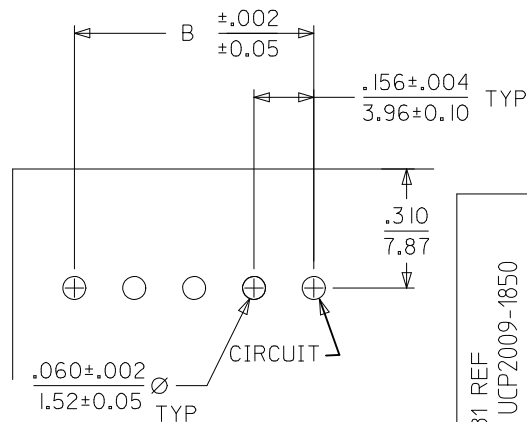
This document was generated on 04/08/2010

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NOTES:

1. HOUSING MATERIAL: NYLON, UL 94V-2
2. FINISH:
 - (909) OVERALL HOT TIN DIP: .000100/0.00254 MIN.
 - (122) OVERALL TIN: .000150/0.00281 MIN.
 - OVERALL NICKEL UNDERPLATE: .000030/0.00076 MIN.
 - (558) SELECT GOLD: .000030/0.00076 MIN.
 - WITH OVERALL GOLD FLASH .000002/0.00005 MIN.
 - OVERALL NICKEL UNDERPLATE: .000050/0.00127 MIN.
 - (102) OVERALL TIN: .000200/0.00508 MIN.
 - OVERALL COPPER UNDERPLATE: .000100/0.00254 MIN.
 - (208) SELECT GOLD: .000015/0.00038 MIN.
 - SELECT TIN: .000100/0.00254 MIN.
 - OVERALL NICKEL UNDERPLATE: .000050/0.00127 MIN.
3. PRODUCT SPECIFICATION: PS-08-50
4. PACKAGING INFO: SEE CHARTS.
5. SOLDERABILITY SPECIFICATION: SMES-152.
6. TOP ENTRY OPTIONS: SEE DRAWING SDA-2145-002.
7. BOTTOM ENTRY OPTIONS: SEE DRAWING SDA-2145-003
8. .183/4.64 DIMENSION IS BOTTOM OF HOUSING TO CENTER OF MATING PIN AND DOES NOT REFLECT CENTER OF THE CONNECTOR HOUSING WINDOW DIMENSION.
9. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION.



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: .062/1.57

ADD .31 REF	EC NO: UCP2009-1850	DRWN:KSAMIEC	2009/01/27	CHKD:	2009/01/27	APPR:JCOMERC	2009/01/27	DESCRIPTION
Z								REV

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .015
1 PLACE	± 0.38	± ---
ANGULAR ±1/2°		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
IN/MM	
DRAWN BY	DATE
SAMIEC	
CHECKED BY	DATE
SAMIEC	
APPROVED BY	DATE
MARGULIS	
MATERIAL NO.	
SEE CHART	
SIZE	A

SCALE	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION
TITLE KK 156 PCB ASSY RIGHT ANGLE ENTRY		
molex MOLEX INCORPORATED		
DOCUMENT NO. SDA-2145-001		SHEET NO. 1 OF *
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

CKT	A	B
02	.308 7.82	.156±.005 3.96±0.13
03	.464 11.79	.312±.005 7.92±0.13
04	.620 15.75	.468±.005 11.89±0.13
05	.776 19.71	.624±.005 15.85±0.13
06	.932 23.67	.780±.005 19.81±0.13
07	1.088 27.64	.936±.010 23.77±0.25
08	1.244 31.60	1.092±.010 27.74±0.25
09	1.400 35.56	1.248±.010 31.70±0.25
10	1.556 39.52	1.404±.010 35.66±0.25
11	1.712 43.48	1.560±.010 39.62±0.25
12	1.868 47.45	1.716±.010 43.59±0.25
13	2.024 51.41	1.872±.010 47.55±0.25
14	2.180 55.37	2.028±.014 51.51±0.36
15	2.336 59.33	2.184±.014 55.47±0.36



KK 156 PCB ASSY

2145 RIGHT ANGLE SERIES

OPTIONS	RAMPS	YES	RAMPS	YES
	HOOKS:	YES	HOOKS:	YES
	COLOR:	WHITE	COLOR:	WHITE
	MOLD VOID:	NONE	MOLD VOID:	NONE
	TERM MATL:	PHOS BRONZE	TERM MATL:	PHOS BRONZE
	CONTACT:	STANDARD	CONTACT:	STANDARD
	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68
	PLATING:	102 - TIN	PLATING:	208 - GOLD
	TERM VOID:	NONE	TERM VOID:	NONE
	PACKAGING:	TRAY PK-2145-001	PACKAGING:	TRAY PK-2145-001
Ckts	Material No		Material No	
2	09-52-1026		09-62-4027	
3	09-52-1036		09-62-4037	
4	09-52-1046		09-62-4047	
5	09-52-1056		09-62-4057	
6	09-52-1066		09-62-4067	
7	09-52-1076		09-62-4077	
8	09-52-1086		09-62-4087	
9	09-52-1096		09-62-4097	
10	09-52-1106		09-62-4107	
11	09-52-1116		09-62-4117	
12	09-52-1126		09-62-4127	
13	09-52-1136		09-62-4137	
14	09-52-1146		09-62-4147	
15	09-52-1156		09-62-4157	

REV:		TITLE:		SHEET No.
Y ₂	3/9/2005 SAMIEC	KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES		- 2 -
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:	
SDA-2145-001	SAMIEC	SAMIEC	MARGULIS	



KK 156 PCB ASSY
2145 RIGHT ANGLE SERIES

OPTIONS	RAMPS	YES	RAMPS	YES	RAMPS	YES	RAMPS	YES
	HOOKS:	YES	HOOKS:	YES	HOOKS:	YES	HOOKS:	YES
	COLOR:	WHITE	COLOR:	WHITE	COLOR:	WHITE	COLOR:	WHITE
	MOLD VOID:	NONE	MOLD VOID:	NONE	MOLD VOID:	NONE	MOLD VOID:	NONE
	TERM MATL:	BRASS	TERM MATL:	BRASS	TERM MATL:	PHOS BRONZE	TERM MATL:	BRASS
	CONTACT:	STANDARD	CONTACT:	STANDARD	CONTACT:	STANDARD	CONTACT:	STANDARD
	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68
	PLT CODE:	102 - TIN	PLT CODE:	122 - TIN	PLT CODE:	558 – 30 GOLD	PLT CODE:	P909 – TIN
	TERM VOID:	NONE	TERM VOID:	NONE	TERM VOID:	NONE	TERM VOID:	NONE
	PACKAGING:	TRAY PK-2145-001	PACKAGING:	TRAY PK-2145-001	PACKAGING:	TRAY PK-2145-001	PACKAGING:	TRAY PK-2145-001
Ckt	Material No		Material No		Material No		Material No	
2	09-52-1021		09-86-3021		09-62-3025		09-52-3021	
3	09-52-1031		09-86-3031		09-62-3035		09-52-3031	
4	09-52-1041		09-86-3041		09-62-3045		09-52-3041	
5	09-52-1051		09-86-3051		09-62-3055		09-52-3051	
6	09-52-1061		09-86-3061		09-62-3065		09-52-3061	
7	09-52-1071		09-86-3071		09-62-3075		09-52-3071	
8	09-52-1081		09-86-3081		09-62-3085		09-52-3081	
9	09-52-1091		09-86-3091		09-62-3095		09-52-3091	
10	09-52-1101		09-86-3101		09-62-3105		09-52-3101	
11	09-52-1111		09-86-3111		09-62-3115		09-52-3111	
12	09-52-1121		09-86-3121		09-62-3125		09-52-3121	
13	09-52-1131		09-86-3131		09-62-3135		09-52-3131	
14	09-52-1141		09-86-3141		09-62-3145		09-52-3141	
15	09-52-1151		09-86-3151		09-62-3155		09-52-3151	

☐	RAMPS	YES	RAMPS	YES	RAMPS	NO	RAMPS	YES
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REV: Y₂	3/9/2005 SAMIEC	TITLE: KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES	SHEET No. - 3 -
DOCUMENT NUMBER: SDA-2145-001	CREATED / REVISED BY: SAMIEC	CHECKED BY: SAMIEC	APPROVED BY: MARGULIS



KK 156 PCB ASSY

2145 RIGHT ANGLE SERIES

	HOOKS:	YES	HOOKS:	YES	HOOKS:	YES	HOOKS:	YES
	COLOR:	BLACK	COLOR:	WHITE	COLOR:	WHITE	COLOR:	WHITE
	MOLD VOID:	NONE	MOLD VOID:	NONE	MOLD VOID:	NONE	MOLD VOID:	NONE
	TERM MATL:	BRASS	TERM MATL:	BRASS	TERM MATL:	BRASS	TERM MATL:	BRASS
	CONTACT:	STANDARD	CONTACT:	STANDARD	CONTACT:	STANDARD	CONTACT:	LOW INSERTION
	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68
	PLT CODE:	P909 – TIN	PLT CODE:	208 – 15 GOLD	PLT CODE:	P909 – TIN	PLT CODE:	P909 – TIN
	TERM VOID:	NONE	TERM VOID:	NONE	TERM VOID:	NONE	TERM VOID:	NONE
	PACKAGING:	TRAY PK-2145-001	PACKAGING:	TRAY PK-2145-001	PACKAGING:	TRAY PK-2145-001	PACKAGING:	TRAY PK-2145-001
Ckt	Material No		Material No		Material No		Material No	
2	09-53-3021		09-62-3021					
3	09-53-3031		09-62-3031				09-52-3035	
4	09-53-3041		09-62-3041				09-52-3045	
5	09-53-3051		09-62-3051				09-52-3055	
6	09-53-3061		09-62-3061				09-52-3065	
7	09-53-3071		09-62-3071					
8	09-53-3081		09-62-3081				09-52-3085	
9	09-53-3091		09-62-3091		09-52-2097		09-52-3095	
10	09-53-3101		09-62-3101				09-52-3105	
11	09-53-3111		09-62-3111					
12	09-53-3121		09-62-3121				09-52-3125	
13	09-53-3131		09-62-3131					
14	09-53-3141		09-62-3141					
15	09-53-3151		09-62-3151				09-52-3155	

REV:	3/9/2005	TITLE:	KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES	SHEET No.
Y ₂	SAMIEC			- 4 -
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:	
SDA-2145-001	SAMIEC	SAMIEC	MARGULIS	



KK 156 PCB ASSY

2145 RIGHT ANGLE SERIES

OPTIONS	RAMPS	YES	RAMPS	YES	RAMPS	YES	RAMPS	
	HOOKS:	YES	HOOKS:	YES	HOOKS:	YES	HOOKS:	
	COLOR:	WHITE	COLOR:	WHITE	COLOR:	WHITE	COLOR:	
	MOLD VOID:	NONE	MOLD VOID:	NONE	MOLD VOID:	NONE	MOLD VOID:	
	TERM MATL:	PHOS BRONZE	TERM MATL:	PHOS BRONZE	TERM MATL:	PHOS BRONZE	TERM MATL:	
	CONTACT:	STANDARD	CONTACT:	STANDARD	CONTACT:	LOW FORCE	CONTACT:	
	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	.145 / 3.68	PC TAIL (C):	
	PLT CODE:	122 – TIN	PLT CODE:	P909 – TIN	PLT CODE:	102 – TIN	PLT CODE:	
	TERM VOID:	NONE	TERM VOID:	NONE	TERM VOID:	NONE	TERM VOID:	
	PACKAGING:	TRAY PK-2145-001	PACKAGING:	TRAY PK-2145-001	PACKAGING:	TRAY PK-2145-001	PACKAGING:	
Ckt	Material No		Material No		Material No		Material No	
2			09-52-3028		50-29-0036			
3			09-52-3038		50-29-0037 09-52-1030			
4	09-86-3044		09-52-3048		50-29-0038			
5	09-86-3054		09-52-3058		50-29-0039			
6	09-86-3064		09-52-3068		09-52-1060			
7			09-52-3078		50-29-0040			
8	09-86-3084		09-52-3088		09-52-1080			
9			09-52-3098		50-29-0041			
10	09-86-3104		09-52-3108		09-52-1100			
11			09-52-3118		50-29-0042			
12	09-86-3124		09-52-3128		09-52-1120			
13			09-52-3138		50-29-0043			
14			09-52-3148		09-52-1140			
15			09-52-3158		50-29-0044			

REV:		TITLE:	KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES	SHEET No.
Y ₂	3/9/2005 SAMIEC			- 5 -
DOCUMENT NUMBER:	SDA-2145-001	CREATED / REVISED BY:	SAMIEC	CHECKED BY:
				SAMIEC
				APPROVED BY:
				MARGULIS



KK 156 PCB ASSY

2145 RIGHT ANGLE SERIES

CUSTOM PRODUCTS

OPTIONS	RAMPS	YES	RAMPS		RAMPS		RAMPS	
	HOOKS:	YES	HOOKS:		HOOKS:		HOOKS:	
	COLOR:	WHITE	COLOR:		COLOR:		COLOR:	
	MOLD VOID:	NONE	MOLD VOID:		MOLD VOID:		MOLD VOID:	
	TERM MATL:	BRASS	TERM MATL:		TERM MATL:		TERM MATL:	
	CONTACT:	STANDARD	CONTACT:		CONTACT:		CONTACT:	
	PC TAIL (C):	.145 / 3.68	PC TAIL (C):		PC TAIL (C):		PC TAIL (C):	
	PLT CODE:	P909 – TIN	PLT CODE:		PLT CODE:		PLT CODE:	
	TERM VOID:	NONE	TERM VOID:		TERM VOID:		TERM VOID:	
	PACKAGING:	TRAY PK-2145-001	PACKAGING:		PACKAGING:		PACKAGING:	
Ckt	Material No.	Engineering No.	Material No.	Engineering No.	Material No.	Engineering No.	Material No.	Engineering No.
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12	50-29-1880	A-2145-AA12A-P909						
13								
14								
15								

REV:		TITLE:	KK 156 PCB ASSY 2145 RIGHT ANGLE SERIES	SHEET No.
A				- 2 -
DOCUMENT NUMBER:	SDA-2145-004	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
		DRATNOL 12/09/2004	SAMIEC 12/09/2004	MARGULIS 12/09/2004